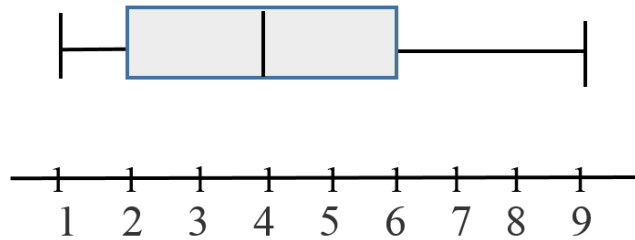


Statistics Review Unit – Lesson 3 Lesson Practice - Handout

Name:

Date:

Box plots give you a visual representation of a set of data as well as a numerical summary of that data. The “box” in a box plot has a line drawn through it to show the median. The spaces between the different parts of a box plot show you the spread of the data distribution. A box plot has a five point summary which includes the minimum value of the data, the maximum value of the data, median, lower quartile and upper quartile. You can also find the range of the data set by subtracting the minimum data value from the maximum data value.



Use this box plot to answer questions 1, 2 and 3.

1. What is the range of this box plot and what does it represent?
2. What is the lower quartile and upper quartile of the data set? What do these measures represent?
3. What could a possible data set for this boxplot be?
4. Create a box plot to represent this set of data. Remember to use the five number summary.

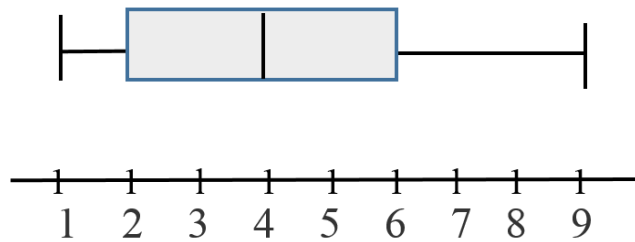
4, 5, 5, 6, 7, 7, 8, 9, 10

Display numerical data in plots on a number line, including box plots.**Practice Set B, *key***

Name:

Date:

Box plots give you a visual representation of a set of data as well as a numerical summary of that data. The “box” in a box plot has a line drawn through it to show the median. The spaces between the different parts of a box plot show you the spread of the data distribution. A box plot has a five point summary which includes the minimum value of the data, the maximum value of the data, median, lower quartile and upper quartile. You can also find the range of the data set by subtracting the minimum data value from the maximum data value.



Use this box plot to answer questions 1, 2 and 3.

1. What is the range of this box plot and what does it represent?

The range is 8 ($9 - 1 = 8$). It represents the minimum and maximum data values.

2. What is the lower quartile and upper quartile of the data set? What do these measures represent?

The lower quartile is 2. This represents the median of the data values below the data set's median. The upper quartile is 6. This represents the median of the data values above the data set's median. Together, they form the box.

3. What could a possible data set for this boxplot be?

A possible data set for this box plot would be: 1, 2, 4, 6, 9. Answers will vary.

4. Create a box plot to represent this set of data. Remember to use the five number summary?
4, 5, 5, 6, 7, 7, 8, 9, 9, 10

